

CHAPTER 2

PROGRAMMING

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SECTION 1 GENERAL

1.1 Introduction

The RANGER DK – 824 system is a stored program controlled system. When the system is initially powered up, the CPU scans each of the possible interface KTUs to determine the hardware configuration. The system stores this information as well as the system default values in memory. This area of memory is referred to as the Resident System Program. After the system has been initially powered up, a trained technician can change the Resident System Program to meet the specific needs of the individual customer.

Before attempting to program the RANGER DK – 824 system, the Job Specifications Worksheets should be completed. These worksheets help organize the customer's programming needs. Copies of the worksheets should be retained at the job site and on file at the technician's office. (Refer to the *RANGER DK – 824 Job Specifications Manual* included with the KSU.)

WARNING

The battery on the KSU Main Board must be on (switch SW1 → HOLD). Failure to ensure the battery is on, before programming begins, may result in the loss of data in the event of a power outage.

1.2 Using This Chapter

This chapter is divided into the following sections:

Section 1 - General

Provides a general overview of System Programming.

Section 2 - System Programming

Presents the terms and structure that the technician should be familiar with before attempting to program the system.

Section 3 - System Data List

Presents a complete list of Data Numbers, Timer and Function Names, Default Values, and Timing Values.

Section 4 - Programming Procedures

Provides detailed instructions and procedures for programming all Memory Blocks.

1.3 Entering the Programming Mode

To program information into the RANGER DK – 824 system, an ETW-16C-1A or ETW-16D-1A Multiline Terminal can be used as programming stations. (Two stations are automatically assigned as programming stations. These stations are assigned to the two lowest interface circuits (Ports 01 and 02) in the system.

When entering any area of programming, the programming station must be in the OFF-LINE mode. To Go Off-Line:

1. Press the FNC key, then the HOLD key.
2. Dial #, 0, * in sequence.

After completing the above steps, the LCD on the Multiline Terminal will show:

PROGRAM MODE	

TIME	DISPLAY

HOLD RECALL TIMER SELECTION (NON-EXCLUSIVE)

System	Data No.
1	02

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 0 2
(Dial Pad)

Data No.	Title	Setting Data
02 :	HOLDRECL	1.0 m

TIME	DISPLAY	

NOTES:

1. Calls put on Exclusive Hold will recall using the data selected in Memory Block 1-03 (Exclusive Hold Recall Timer Selection).

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 1 min. to 2 min, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
1 min.	2 min.	3 min	4 min	No Limit
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

 Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-03 (Exclusive Hold Recall Timer Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK1)	03		✓

GENERAL INFORMATION - HOLD RECALL TIMER SELECTION

(Non-Exclusive)

This Memory Block specifies the time interval of a non exclusively held CO/PBX call until a recall tone is generated. If "No Limit" is selected, no hold alarm tone is generated.

System	Data No.
1	04

NOTES:

2. Enter: Mode System

LK 1

- ▼
3. Enter: Data No.

0	4
---	---
- (Dial Pad)

Data No.	Title	Setting Data
04 :	PAGING	90s
TIME	DISPLAY	

1. There are four types of paging:
 - Internal Zone Paging - 71~73
 - Internal All Zone Paging - 70
 - External Paging - 75
 - All Internal/External Zone Paging - 77
2. There are three selections for length of paging time: 90 sec., 120 sec., and No Limit.

4. Press the corresponding Dial Pad key to change the Setting Data option.
 - To change 90 sec. to 120 sec., press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
90 sec.	120 sec	No Limit		
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

☐ Default

5. Pressing the **CALL** key will write the selected data and advance to Memory Block 1-05 (Trunk Queuing Recall Time Selection).
6. Press the **SPKR** key to go back on-line.

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	28		✓
Telephone (LK 4)	03		✓

GENERAL INFORMATION - INTERNAL/EXTERNAL PAGING ACCESS TIME SELECTION

This Memory Block is used to program the length of time allowed for paging.

PAUSE TIME SELECTION

System	Data No.
1	06

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 0 6
(Dial Pad)

Data No.	Title	Setting Data
06 :	PAUSE	3.0s

TIME	DISPLAY	

NOTES:

1. A pause is automatically inserted following a PBX Access Code (for example, "0") by programming CO/PBX lines as PBX in Memory Block 3-12 (Trunk Type Selection).
2. Pauses can be stored as part of System and Station Speed Dial buffers when needed.

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 3 sec. to 1 sec., press Dial Pad key 0.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
1 sec.	3 sec			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

 Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-07 (DP Interdigit Time Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK1)	29		✓
CO/PBX (LK 3)	12		✓

GENERAL INFORMATION - PAUSE TIME SELECTION

A pause may be inserted between digits dialled on CO/PBX lines. This Memory Block Specifies the length of the pause. A pause is automatically inserted following a "behind a PBX/CTX" Access Code (for example, "0") by programming for PBX line in Memory Block 3-12 (Trunk Type Selection).

RECEIVER (PBR) RELEASE TIMER SELECTION

OPERATION:

System	Data No.
1	08

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 0 8
(Dial Pad)

Data No.	Title	Setting Data
0 8 :	PBR RLS	10s

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 10 sec. to 20 sec., press Dial Pad key 2.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
5 sec.	10 sec.	20 sec.	30 sec.	50 sec.
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9
60 sec.				

Dial Pad keys

Default

Specified Time
(Default = 10 sec.)

Seven sec.

(MB 1, 8, and 10)

Seven sec.

Ten sec.



Off-Hook

Dial tone is sent (PBR connected).

9

Dial the first digit.

7

The second digit.

5

The third digit.

...

3

If the last digit is dialled, PBR is disconnected.

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-09 (Doorphone Display Time Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
Telephone (LK 4)	01		✓
Telephone (LK 4)	05		✓

GENERAL INFORMATION - RECEIVER (PBR) RELEASE TIMER SELECTION

This Memory Block is used to specify the time interval between each digit dialled during which a receiver circuit is connected when a DTMF type Single Line Telephone user goes off-hook and dials digits.

CO RING TRANSFER RECALL TIMER SELECTION

System	Data No.
1	10

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 1 0
(Dial Pad)

Data No.	Title	Setting Data
1 0 :	TRF RECL	60 s

TIME	DISPLAY	

NOTES:

- Only CO/PBX line calls can be ring transferred.

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 60 sec. to 120 sec., press Dial Pad key 2.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
30 sec.	60 sec.	120 sec.	240 sec.	
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-11 (Automatic Callback Time Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	23		✓
Telephone (LK 4)	18		✓
Telephone (LK 4)	19		✓

GENERAL INFORMATION - CO RING TRANSFER RECALL TIMER SELECTION

This Memory Block specifies the time interval from CO/PBX line ringing tone transfer until a recall tone is generated to the originating telephone if the call is not answered.

AUTOMATIC REDIAL TIME SELECTION

System	Data No.
1	1 2

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 1 2
(Dial Pad)

Data No.	Title	Setting Data
1 2 :	REDIAL	15/60

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 15 sec./60 sec. to 30 sec./120 sec., press Dial Pad key 3.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
15/60 sec.	15/120 sec.	15/180 sec.	30/120 sec.	
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad
keys

 Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-13 (Bounce Protect Time Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

None

NOTES:

1. Definitions:

Calling Time: The length of time that the system will automatically ring the busy CO/PBX number. After the specified time limit, the ringing will stop.

Call Waiting Time: The length of time the system will wait before redialling the called party's station.

Call Attempts: The number of times the system will redial the busy CO/PBX number.

2. Setting Data:

Dial No.	Calling Time	Call Waiting Time	Call Attempts
0	15 sec.	60 sec.	3
1	15 sec.	120 sec.	3
2	15 sec.	180 sec.	3
3	30 sec.	120 sec.	3

GENERAL INFORMATION - AUTOMATIC REDIAL TIME SELECTION

When a called party is busy, the station user dials an Access Code and restores the handset. As programmed in this Memory Block, the system will automatically redial the busy CO/PBX number and wait the specified calling time. After the specified number of call attempts with no answer, the system will stop dialling.

HOOKFLASH START TIME SELECTION

System	Data No.
1	14

OPERATION:

1. Go off-line.
2. Enter: Mode
3. Enter: Data No.

System

LK 1



1	4
---	---

(Dial Pad)

NOTES:

1. A hookflash during a CO/PBX call places the line on hold or sends a hookflash to the CO/PBX.
2. When a hookflash is 0.1 seconds or less, or 2.3 seconds or more, it is not considered to be a hookflash.

Data No.	Title	Setting Data
1 4 :	FLSH ST	40 ms.
TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.
 - To change 40 ms. to 340 ms., press Dial Pad key 5.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
40 ms.	90 ms.	140 ms.	190 ms.	240 ms.
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9
340 ms.	440 ms.	540 ms.	640 ms.	740 ms.

Dial Pad keys



Default

5. Pressing the **CALL** key will write the selected data and advance to Memory Block 1-15 (Hookflash End Time Selection).
6. Press the **SPKR** key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	15		✓

GENERAL INFORMATION - HOOKFLASH START TIME SELECTION

This Memory Block is used to specify the start of a hookflash duration from a Single Line Telephone in order to receive a dial tone. The duration, plus the duration specified in the Hookflash End Time Memory Block, specifies the length of a valid hookflash.

CALL FORWARD BUSY/NO ANSWER TIMER SELECTION

System	Data No.
1	16

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 1 6
(Dial Pad)

Data No.	Title	Setting Data
1 6 :	FWD NOANS	10 s
TIME	DISPLAY	

NOTES:

1. CO/PBX calls will not follow the Forward unless the station is Forwarded to a Voice Mail port.

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 10 sec. to 15 sec., press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
10 sec.	15 sec.	20 sec.	25 sec.	30 sec.
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9
60 sec.				

Dial Pad keys



Default

5. Pressing the CALL key will write the selected data and continue with the CALL key to advance to Memory Block 1-17 (Elapsed Call and SMDR Start Timer Selection).

6. Press the SPKR key to go back on-line.

- Additional Programming
None

GENERAL INFORMATION - CALL FORWARD BUSY/NO ANSWER TIMER SELECTION

This Memory Block specifies the time before incoming internal calls and CO/PBX transferred calls are forwarded to another station number when the called party does not answer.

DISCONNECT TIME SELECTION

System	Data No.
1	18

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 13. Enter: Data No. 1 8
(Dial Pad)

Data No.	Title	Setting Data
18 :	DIS TM	2.0 s

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 2.0 sec. to 3.0 sec., press Dial Pad key 7.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
0.3 sec.	0.5 sec.	0.8 sec.	1.0 sec.	1.5 sec.
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9
2.0 sec.	2.5 sec.	3.0 sec.	3.5 sec.	4.0 sec.

Dial Pad keys

 Default

5. Pressing the CALL key will write the selected data and continued with the CALL key to advance to Memory Block 1-19 (Voice/Tone Signal Selection).

6. Press the SPKR key to go back on-line.

- Additional Programming
None

NOTES:

1. When a call, originating on a CO/PBX line, is interrupted or dropped while in progress and an attempt is made to re-access the line, the seized line must be disconnected and cleared before it can be accessed again.
2. The system must be idle before this data is written into memory.
3. The Drop Key timer is also affected by this Memory Block.

GENERAL INFORMATION - DISCONNECT TIME SELECTION

This Memory Block specifies the minimum time before a CO/PBX line that has been disconnected can be accessed again.

BGM SELECTION

System	Data No.
1	20

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 2 0
(Dial Pad)

Data No.	Title	Setting Data
2 0 :	BGM	NO

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change No to Yes, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-21 (System Speed Dial Override Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	28		✓

GENERAL INFORMATION - BGM SELECTION

This Memory Block specifies if the tone from an external music source will be provided for background music to station speakers and/or external paging speaker.

SYSTEM SPEED DIAL DISPLAY STATION SELECTION

System	Data No.
1	22

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 2 2
(Dial Pad)

Data No.	Title	Setting Data
2 2 :	SPDDSP	ATT

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Attendant Position (ports 01 and 02) to All Multiline Terminals, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
Att	All			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

Att: Attendant Positions (ports 01 and 02)

All: All Multiline Terminals

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-23 (Ring Transfer Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

None.

GENERAL INFORMATION - SYSTEM SPEED DIAL DISPLAY STATION SELECTION

This Memory Block specifies the terminal that can display the telephone number of a System Speed Dial buffer.

TIME DISPLAY (12h/24h) SELECTION

System	Data No.
1	24

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 2 4
(Dial Pad)

Data No.	Title	Setting Data
2 4 :	HOUR DISP	12H

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change 12 hr. to 24 hr., press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
12 hr.	24 hr.			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

 Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-25 (Off-Hook Ringing Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

None

GENERAL INFORMATION - TIME DISPLAY (12h/24h) SELECTION

This Memory Block is used to specify either a 12-hour (12:00 AM - 11:59 PM) or 24-hour (00:00 - 23:59) time display.

DAY/NIGHT MODE SWITCHING TIME ASSIGNMENT

System	Data No.
1	26

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 2 6
(Dial Pad)

Data No.	Night Switch	Day Switch
2 6 : NT	:	:

TIME	DISPLAY	

4. Enter data by using the Dial Pad.

- Example: To switch time, enter 08:00 and 20:00.

← . , # → : To move cursor.

Dial pad 0 ~ 9 : To enter data.

HOLD key : To clear all data
when cursor is at
Data No. position.

Default	Not Specified
---------	---------------

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-27 (Receiving Volume Selection).

6. Press the SPKR key to go back on-line.

- Additional Programming
None

NOTES:

1. The system can be placed into Day or Night Mode at any time from a terminal assigned this feature.
2. The start times of Day Mode and Night Mode can be specified in System Programming to automatically switch modes at the specified times.
3. A start time for Day Mode only or Night Mode only cannot be programmed.
4. Day Mode and Night Mode should not be programmed to have the same start time.
5. The time is entered by the 24-hour time system (00:00 ~ 23:59) only.
6. The first input represents when Night Mode begins. The second input represents the beginning of Day Mode.

GENERAL INFORMATION - DAY/NIGHT MODE SWITCHING TIME ASSIGNMENT

This Memory Block allows automatic switching of the system between Day Mode and Night Mode.

EXTERNAL SPEAKER CONNECTION SELECTION

System	Data No.
1	28

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 2 8
(Dial Pad)

Data No.	Title	Setting Data
2 8 :	ESP CONN	YS

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Yes to No, press Dial Pad key 0.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

Default

Yes = External Speaker connected

No = External Speaker not connected

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-29 (PBX Access Code Assignment).

6. Press the SPKR key to go back on-line.

■ Additional Programming

None

GENERAL INFORMATION - EXTERNAL SPEAKER CONNECTION SELECTION

This Memory Block is used to specify whether an external speaker is connected to the system.

PRIVATE LINE ASSIGNMENT

System	Data No.
1	30

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 13. Enter: Data No. 3 0
(Dial Pad)

Data No.		Title		No. (1~2)		CO No. (01 ~ 08)		Tel Port No. (01 ~ 24)	
3 0 :		P 1		C T		T T			

TIME					DISPLAY				

4. Use the Dial Pad key to enter data.

- Example: CO line 5 is assigned as Private Line for Tel. Port No. 11.

← * , # → : To move cursor.

Dial pad 0 ~ 9 : To enter CO No.

HOLD key : To clear all data when cursor is at CO No.

Default	Not Specified
---------	---------------

5. Press the CALL key to write the data and advance to the second Private Line Assignment.

6. After entering the desired data, press the CALL key to write that data and advance to Memory Block 1-31 (Doorphone Connection Selection).

7. Press the SPKR key to go back on-line.

NOTES:

1. A maximum of two Private Lines can be assigned.
2. The two Private Lines can be assigned in any combination (refer to chart below).
3. Private Lines can be assigned to Single Line Telephones.

Combination Chart		
Private Line 1 CO#	Tel #	
	Tel #	
Private Line 2 CO#	Tel #	
	Tel #	

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
Tenant (LK 2)	01		✓

GENERAL INFORMATION - PRIVATE LINE ASSIGNMENT

This Memory Block is used to assign an outside line for use as a Private Line. The Private Line cannot be seized by any other telephone, and no LED indication is provided to other terminals.

SLT HOOKFLASH SIGNAL SELECTION

System	Data No.
1	32

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 13. Enter: Data No. 3 2
(Dial Pad)

Data No.	Title	Setting Data
3 2 :	SIGNAL	HOLD

TIME	DISPLAY	

NOTES:

1. If Hold is specified, the CO/PBX line is put on Exclusive Hold.
2. If FLASH is specified, a timed hookflash signal is sent to the outside line.

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Hold to Flash, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
Hold	Flash			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-33 (Station Master Hunt Number Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
Telephone (LK 4)	01		✓

GENERAL INFORMATION - SLT HOOKFLASH SIGNAL SELECTION

This Memory Block is used to specify whether a line is held, or if behind a PBX, a hookflash signal is sent to the CO/PBX when a Single Line Telephone user performs a hookflash.

CO/PBX ACCESS/RELEASE SELECTION

System	Data No.
1	34

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 3 4
(Dial Pad)

Data No.	Title	Setting Data
3 4 :	RELEASE	NO

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change No to Yes, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

 Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-35 (VRS Message Recording Time Selection).
6. Press the SPKR key to go back on-line.

■ Additional Programming

None

GENERAL INFORMATION - ON-HOOK DIALING/RELEASE SELECTION

This Memory Block is used to determine whether a CO/PBX line disconnects or no response is provided when pressing a CO/PBX line key that is already accessed.

VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (NIGHT) SELECTION

System	Data No.
1	36

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 3 6
(Dial Pad)

Data No.	Title	Setting Data
3 6 :	VRS NT	NO

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change No to Yes, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
NO	YES			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

No = No Automatic Answer/Automated Attendant

Yes = Automatic Answer/Automated Attendant

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-37 [VRS Automatic Answer/Automated Attendant (Day) Selection].

6. Press the SPKR key to go back on-line.

■ Additional Programming

Refer to Section 6 - Guide to Feature Programming in this chapter.

GENERAL INFORMATION - VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (NIGHT) SELECTION

This Memory Block is used to specify whether VRS Automatic Answer/Automated Attendant (Night) is allowed or denied.

VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (WEEKEND) SELECTION

System	Data No.
1	38

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 3 8
(Dial Pad)

Data No.	Title	Setting Data
3 8 :	VRS WK	NO

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change No to Yes, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
NO	YES			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

 Default

No = No Automatic Answer/Automated Attendant
Yes = Automatic Answer/Automated Attendant

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-39 (VRS Manual Answer Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Refer to Section 6 - Guide to Feature Programming in this chapter.

GENERAL INFORMATION - VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (WEEKEND) SELECTION

This Memory Block is used to specify whether VRS Automatic Answer/Automated Attendant (Weekend) is allowed or denied.

VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (NIGHT) TIME ASSIGNMENT

System	Data No.
1	40

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 4 0
(Dial Pad)

Data No.	Title	Setting Data
4 0 :	VRS NTTM	:

TIME	DISPLAY	

4. Enter the data by using the Dial Pad.

- Example: To switch time, enter 20:00

← * , # → : To move cursor.

Dial pad 0 ~ 9 : To enter Setting Data.

HOLD key : To clear all data when cursor is at Data No.

Default	Not Specified
---------	---------------

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-41 [VRS Automatic Answer/Automated Attendant (Day) Time Assignment].
6. Press the SPKR key to go back on-line.

■ Additional Programming

Refer to Section 6 - Guide to Feature Programming in this chapter.

GENERAL INFORMATION - VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (NIGHT) TIME ASSIGNMENT

This Memory Block is used to allow automatic switching of the Automatic Answer/Automated Attendant feature into VRS Automatic Answer Night Mode.

VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (OFF) TIME ASSIGNMENT

System	Data No.
1	42

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 4 2
(Dial Pad)

Data No.	Title	Setting Data
4 2 :	VRS OFTM	:

TIME	DISPLAY	

4. Enter the data by using the Dial Pad.

- Example: To switch time, enter 08:00

← * , # → : To move cursor.

Dial pad 0 ~ 9 : To enter Setting Data.

HOLD key : To clear all data when cursor is at Data No.

Default	Not Specified
---------	---------------

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-43 (Doorphone Preference Selection).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Refer to Section 6 - Guide to Feature Programming in this chapter.

GENERAL INFORMATION - VRS AUTOMATIC ANSWER/AUTOMATED ATTENDANT (OFF) TIME ASSIGNMENT

This Memory Block is used to automatically switch off the Automatic Answer/Automated Attendant feature.

EXTERNAL RING SELECTION (DAY MODE)

System	Data No.
1	44

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 4 4
(Dial Pad)

Data No.	Title	Setting Data
4 4 :	EXTRG DY	NO
TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change No to Yes, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-45 [External Ring Selection (Night Mode)].

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	45		✓

GENERAL INFORMATION - EXTERNAL RING SELECTION (DAY MODE)

This Memory Block is used to specify whether ringing CO/PBX calls produce a ringing signal from the External Ringer Connection (CN16 "BZ" on the ESF-G-13 Mainboard) while the system is in Day Mode.

MANUAL LINE SEIZURE SELECTION

System	Data No.
1	46

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 4 6
(Dial Pad)

Data No.	Title	Setting Data
4 6 :	MANUAL	YS

TIME	DISP LAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Yes (Manual Line Seizure) to No (No Manual Line Seizure), press Dial Pad key 0.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

No = No manual line seizure
Yes = Manual line seizure

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-47 (Trunk Queuing/Hold Free Transfer Selection).
6. Press the SPKR key to go back on-line.

- Additional Programming
None

GENERAL INFORMATION - MANUAL LINE SEIZURE SELECTION

This Memory Block is used to specify whether an outgoing CO/PBX line can be seized by pressing the line key in an on-hook condition.

GENERAL PURPOSE RELAY ASSIGNMENT

System	Data No.
1	48

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1

3. Enter: Data No. 4 8
(Dial Pad)

Data No.	Title	Relay No. 1~2	Setting Data
4 8 :	RLY	1	NON

TIME	DISPLAY		

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Non to Doorphone 1, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
Non	Door Lock Release 1	Door Lock Release 2	External Speaker	MOH/BGM
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

 Default

← * , # → : To move cursor.

Dial pad 0 ~ 1 : To change the Setting Data

5. Pressing the CALL key will write the selected data and advance to the next relay or to Memory Block 1-49 (Synchronous Ringing Selection).

6. Press the SPKR key to go back on-line.

NOTES:

- The General Purpose Relays are assigned as follows:
 - Door Lock Release (1 and/or 2)
 - External Amplifier Control (for External Paging)
 - External Music On Hold (MOH)/Background Music (BGM) Control
- The General Purpose Relays cannot be assigned to more than one function at the same time.

GENERAL INFORMATION - GENERAL PURPOSE RELAY ASSIGNMENT

This Memory Block is used to assign a function to each of the General Purpose Relays.

- Additional Programming
- None

ELAPSED CALL TIME DISPLAY SELECTION

System	Data No.
1	50

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 1



3. Enter: Data No. 5 0
(Dial Pad)

Data No.	Title	Setting Data
5 0 :	DSPTM	YS

TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Yes to No, press Dial Pad key 0.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

5. Pressing the CALL key will write the selected data and advance to Memory Block: 1-51 (External MOH Selection).
6. Press the SPKR key to go back on-line.

■ Additional Programming

None

GENERAL INFORMATION - ELAPSED CALL TIME DISPLAY SELECTION

This Memory Block specifies whether elapsed call time display is allowed or denied on a system-wide basis.

8-DIGIT MATCHING TABLE ASSIGNMENT

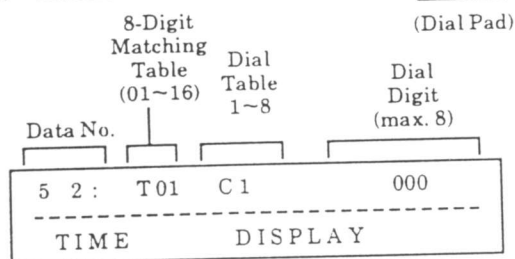
System	Data No.
1	52

OPERATION:

1. Go off-line.

2. Enter: Mode System
- LK 1

3. Enter: Data No.



4. Enter the data by using the Dial Pad.

Data: Matching Table: 01~16 (8-digit)
 Dial Table: 1~8
 Dial Digit: 0~9, *, #, X
 (Max. eight digits)

← * , # → : To move cursor.

Dial pad 0 ~ 9 : To enter Setting Data.

HOLD key : Set Data Clear

Operation Data	Dial Number	Operation
X	0~9, *, #	LNR/SPD key + 7
*	*	LNR/SPD key + *
#	#	LNR/SPD key + #

NOTES:

1. There are 16, 8-Digit Matching Tables. Each 8-Digit Matching Table contains eight Dial Tables. Each Dial Table can be assigned a maximum of eight digits, including *, # and X.

DEFAULT:

Matching Table	Dial Code	Setting Data
01	1	000
01	2	1144X
All other entries blank.		

5. Press the CALL key, the entered data will be written and the data for the next Dial Table/8-Digit Matching Table will be displayed.
6. After entering the desired data for the last Dial Tables and 8-Digit Matching Tables, press the CALL key to write the data and advance to Memory Block 1-53 (Class Allow/Deny Assignment).
7. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	53		✓
System (LK 1)	54		✓
Telephone (LK 4)	24		✓

GENERAL INFORMATION - 8-DIGIT MATCHING TABLE ASSIGNMENT

This Memory Block is used to assign the outgoing dial digits for Code Restriction (except OCC Dial Digits). There are two ways to program this assignment: a) If the user dials a digit(s) and there is a match, the system can Allow free dialling or Deny dialling by disconnecting. This is programmed in Memory Block 1-54 (8-Digit Matching Table to Class Assignment). b) If the user dials a digit(s) and there is not a match, the system can allow free dialling or deny dialling by disconnecting. This is programmed in Memory Block 1-53 (Class Allow/Deny Assignment).

8-DIGIT MATCHING TABLE TO CLASS ASSIGNMENT

System	Data No.
1	54

OPERATION:

1. Go off-line.

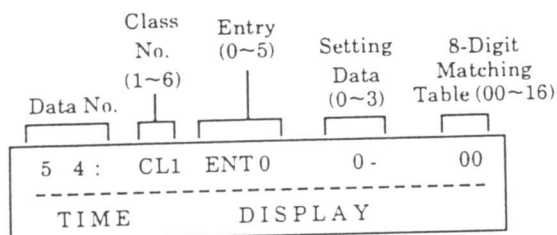
2. Enter: Mode System

LK 1

3. Enter: Data No.

5 4

(Dial Pad)



4. Press the corresponding Dial Pad key to change the Setting Data option.

Class: 1~6

Entry: 0~5

Setting Data:

0 = Deny

1 = Allow

2 = Deny (OCC Calls Only)

3 = Allow (OCC Calls Only)

8-Digit Matching Table

01~16 = Specified

00 = Not Specified

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
Deny	Allow	Deny (OCC)	Allow (OCC)	
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

NOTES:

1. Class 0 is No Restriction.
2. Class 7 is No Outgoing Call.
3. Only Classes 1~6 can be accessed from this Memory Block.
4. Only six 8-Digit Matching Tables can be assigned to each class.

5. Press the CALL key, the entered data will be written and the data for the next Class Assignment Table/Class No. will be displayed.

6. After entering the desired data for the last Class Assignment Tables and Classes, press the CALL key to write the data and advance to Memory Block 1-55 (8-Digit Matching Table to Trunk Group Assignment).

7. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK1)	52		✓
System (LK1)	53		✓
System (LK1)	55		✓

GENERAL INFORMATION - 8-DIGIT MATCHING TABLE TO CLASS ASSIGNMENT

A Maximum of six 8-Digit Matching Tables can be programmed as Allow or Deny on a per class basis. Classes 0 and 7 are fixed (cannot be programmed). Classes 1~6 are programmable.

OCC TABLE ASSIGNMENT

System	Data No.
1	56

OPERATION:

1. Go off-line.

2. Enter: Mode System LK 13. Enter: Data No. 5 6
(Dial Pad)

Data No.	OCC Table (01~16)	Setting Data
5 6 :	CD 01	

TIME	DISPLAY	

4. Use the Dial Pad keys to change the Setting Data option.

Data: OCC Table : 01~16 (8-digit)

Dial Digit : 0~9, *, #, X

(Max. eight digits)

← . , # → : To move cursor.Dial pad 0 ~ 9 : To enter Setting Data.HOLD key : Set Data Clear

Operation Data	Dial Number	Operation
X	0~9, *, #	LNR/SPD key + 7
*	*	LNR/SPD key + *
#	#	LNR/SPD key + #

5. Press the CALL key, the entered data will be written and the data for the next OCC Table will be displayed.

6. After entering the desired data for the last OCC Tables, press the CALL key to write the data and advance to Memory Block 1-57 (OCC Table To Trunk Group Assignment).

7. Press the SPKR key to go back on-line.

Default	OCC Table 01~16	Blank
---------	-----------------	-------

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK1)	57		✓
System (LK1)	58		✓

GENERAL INFORMATION - OCC TABLE ASSIGNMENT

This Memory Block allows an OCC Code (maximum of eight digits) to be assigned in this table. Up to 16 numbers can be assigned in this table.

OCC TABLE

System	Data No.
1	58

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System	Data
1	58

(Pad)

Setting Data

TBL 01	=	YS

DISPLAY		

4. Use the Dial Pad keys to change the Setting Data option.

- To change Yes to No, press Dial Pad key 0.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
No	Yes			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys

8-Digit Matching : 01~16
 OCC Table No. : 01~16
 Setting Data : Yes = All OCC Numbers Assigned
 No = Not Assigned

Default	No (Not Assigned)
---------	-------------------

5. Press the CALL key, the entered data will be written and the data for the next 8-Digit Matching Table/OCC Table will be displayed.
6. After entering the desired data for all the last 8-Digit Matching Table and OCC Table, press the CALL key to write the data and to advance to Memory Block 1-59 (Internal/External Paging Alert Tone Selection).
7. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK1)	52		✓
System (LK1)	56		✓
System (LK1)	57		✓

GENERAL INFORMATION - 8-DIGIT MATCHING TABLE TO OCC TABLE ASSIGNMENT

This Memory Block is used to assign each of the 8-Digit Matching Tables to each of the OCC Tables.

SLT TRANSFER SELECTION

System	Data No.
1	60

OPERATION:

1. Go off-line.

2. Enter: Mode

System

LK 1

3. Enter: Data No.

6 0

(Dial Pad)

NOTE:

1. This Memory Block affects Single Line Telephone/Voice Mail Ports.

Data No.	Title	Setting Data
6 0 :	SLT TRF	HOOK
TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Hook to Hang Up, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
Hook	Hang Up			
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

Hook = Hooking (Hookflash → Station Number → Hookflash → Hang up)
[SLT]
Hang Up = On-Hook (Hookflash → Station Number → Hang up)
[Voice mail]

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-61 [Printer Connected (Alarm) Selection].
6. Press the SPKR key to go back on-line.

■ Additional Programming

None

GENERAL INFORMATION - SLT TRANSFER SELECTION

This Memory Block is used to select the transfer function of a Single Line Telephone Voice Mail Port.

SMDR PRINT FORMAT

System	Data No.
1	62

OPERATION:

1. Go off-line.

2. Enter: Mode

System

LK 1

3. Enter: Data No.

6 2

(Dial Pad)

Data No.	Title	Setting Data
6 2 :	FORMAT	OUT/ALL
---	---	---
TIME	DISPLAY	

4. Press the corresponding Dial Pad key to change the Setting Data option.

- To change Out/All to Out/Mask, press Dial Pad key 1.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
Out/All	Out/Mask	All/All	All/Mask	
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9

Dial Pad keys



Default

Mask = Mask last 2 digits

5. Pressing the CALL key will write the selected data and advance to Memory Block 1-63 (Voice Mail Access Code Assignment).

6. Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK 1)	61		✓

NOTES:

- This Memory Block is required only when the PRN-G-13 KTU unit is installed in the system.
- | | | |
|----------|---|---|
| Out/All | = | Outgoing calls only,
No digit masking. |
| Out/Mask | = | Outgoing calls only,
Mask last 2 digits. |
| All/All | = | Incoming & Outgoing calls,
No digit masking. |
| All/Mask | = | Incoming & Outgoing calls,
Mask last 2 digits. |

GENERAL INFORMATION - SMDR PRINT FORMAT

This Memory Block specifies the format of the SMDR serial output. If Mask is specified, the last two digits of the dialled number (Outgoing calls only) will be masked and "XX" printed instead.

VOICE MAIL DTMF DELAY TIMER SELECTION

System	Data No.
1	64

OPERATION:

1. Go off-line.

2. Enter: Mode

System

LK 1

3. Enter: Data No.

6 4

(Dial Pad)

Data No.	Title	Setting Data
6 4 :	VM DLY	1.0s

TIME		DISP LAY

4. Press the corresponding Dial Pad key to enter the Setting Data option.

- To change 1.0 sec. to 2.0 sec., press Dial Pad key 4.

Dial 0	Dial 1	Dial 2	Dial 3	Dial 4
0 sec.	0.1 sec.	0.5 sec.	1.0 sec.	2.0 sec.
Dial 5	Dial 6	Dial 7	Dial 8	Dial 9
4.0 sec.	6.0 sec.	8.0 sec.	10.0 sec.	14.0 sec.

Dial Pad keys

☐ Default

- Pressing the CALL key will write the selected data and advance to Memory Block 1-65 (Voice Mail DTMF Duration/Interdigit Time Selection).
- Press the SPKR key to go back on-line.

■ Additional Programming

Mode	Data No.	System Data	
		Required	May Be Required
System (LK1)	63	✓	
System (LK1)	65		✓

GENERAL INFORMATION - VOICE MAIL DTMF DELAY TIMER SELECTION

This Memory Block is used to specify the delay time before DTMF tones are sent to the Voice Mail ports.